TCAS II CHANGE PROPOSAL (CP)

DATE: __11__ / __30__ / __05__   **No.:** _____ **114**

TCAS II Version: **DO-185A (v7)**   __X__   **Other (Specify)** _____

MOPS Function Area: **Surveillance**   __X__   **Display Req'ts** _____   **CRS** _____

                             CAS Pseudocode _____   **Test Suites** _____   **Other** _____

Priority: **URGENT** _____   **Necessary** __X__   **Optional** _____

CP Type: **ERROR** _____   **Enhancement** __X__   **Evaluation Request** _____

                             Editorial (Logic) _____   **Editorial (Text)** _____

Description of Problem/Issue:

Volume I test 2.2.4.6.2.2.1, states:

> "The TCAS II squitter processing function shall have memory capacity for at least 150 Mode S addresses.
>
> *Note: Although the maximum required surveillance range of TCAS II is 14 nmi., Mode S squitters will typically be received from targets out to the nominal detection range of 30 nmi. In a density of 0.3 Mode S aircraft per sq. nmi., there will be about 141 aircraft within 30 nmi. of TCAS II.".*

With multilateration systems, Mode S mandates, and RVSM, the Mode S airspace is at higher densities than anticipated by the above requirement.

ICAO, Annex 10, Volume IV, section 3.1.3.13 also has a statement calling for a capacity of at least 150 addresses.

Proposed Resolution:

The capacity for unique Mode S addresses needs to be increased. This issue should be worked in conjunction with the folks responsible for ICAO Annex 10, Volume IV.

Requester: Kevin Wilson _____

Organization: Honeywell _____

DISPOSITION OF CHANGE PROPOSAL (Per RWG):
       DATE OF DISPOSITION   __11__ / __Dec__ / __2007__

Rejected _____ **Deferred** <u>x</u>_____ **[Review Date:** _____ / _____ / _____ **]**

Accepted _____ **Modified** _____ **Withdrawn** _____

DISPOSITION OF CHANGE:

On Hold _____ **Designing** _____ **Testing** _____ **Done** _____ **[Date:** _____ / _____ / _____ **]**

Final Approval of Changes:

Signature: _____

Date: _____ / _____ / _____